

Attention to: Thomas Stevens

Fax No.: 571-273-3715

Application No: 10/573,168

Dear Examiner,

Please receive the amended claims (6 pages) for the above mentioned application per the phone interview conducted on June 25, 2009.

Should you have any questions, please contact me at 407-736-6844.

Thank you.

Best Regards,



Ye Ren

Registration No: 62,344

Amendments to the Claims:

The text of all pending claims, (including withdrawn claims) is set forth below. Applicant reserves the right to pursue any canceled claims at a later date. The following listing of claims will replace all prior versions, and listings, of claims in the application:

1.-19. (cancelled)

20. (currently amended) An arrangement for transmitting data between a hand-held electronic unit and a field device, the arrangement comprising:

a hand-held electronic unit;

a field device having at least one electrical connector for connecting the field device to an operating power supply and having a field device coupling interface, the connector configured to receive from the operating power supply an operation power for the field device sufficient for supporting all normal operations of the field device when employed in a technical facility, the field device further comprising a data transmission circuit in standby mode during normal operations of the field device; and

a cable having first and second cable ends for establishing a data connection between the hand-held electronic unit and the field device and an inductive power connection to supply an additional inductive power to the data transmission circuit for the data transmission, the first cable end configured to be connected to the hand-held electronic unit, and the second cable end having a cable end coupling interface for establishing a wireless proximity connection via the second cable end to the field device coupling interface such that, upon establishing the wireless proximity connection, the data transmission circuit is placed in an active state, the data is transmitted to the field device via the wireless proximity connection and the additional inductive power for the data transmission is transmitted inductively to the data transmission circuit of the field device via the wireless proximity connection, wherein the cable is held to the field device by magnetic adhesion.

21. (canceled)

22. (currently amended) An arrangement for transmitting data between a hand-held electronic unit and a field device, the arrangement comprising:

a hand-held electronic unit;

a field device having at least one electrical connector for connecting the field device to an operating power supply and having a field device coupling interface, the connector configured to receive from the operating power supply an operation power for the field device sufficient for supporting all normal operations of the field device when employed in a technical facility, the field device further comprising a data transmission circuit in standby mode during normal operations of the field device; and

a cable having first and second cable ends for establishing a data connection between the hand-held electronic unit and the field device and an inductive power connection to supply an additional inductive power to the data transmission circuit for the data transmission, the first cable end configured to be connected to the hand-held electronic unit, and the second cable end having a cable end coupling interface for establishing a wireless proximity connection via the second cable end to the field device coupling interface such that, upon establishing the wireless proximity connection, the data transmission circuit is placed in an active state, the data is transmitted to the field device via the wireless proximity connection and the additional inductive power for the data transmission is transmitted inductively to the data transmission circuit of the field device via the wireless proximity connection, wherein a wall of a enclosure of the field device is recessed in an area to accommodate the second cable end in a form-fit manner.

23. (currently amended) An arrangement for transmitting data between a hand-held electronic unit and a field device, the arrangement comprising:

a hand-held electronic unit;

a field device having at least one electrical connector for connecting the field device to an operating power supply and having a field device coupling interface, the connector configured to receive from the operating power supply an operation power for the field device sufficient for supporting all normal operations of the field device when employed in a technical facility, the field device further comprising a data transmission circuit in standby mode during normal operations of the field device; and

a cable having first and second cable ends for establishing a data connection between the hand-held electronic unit and the field device and an inductive power connection to supply an additional-inductive power to the data transmission circuit for the data transmission, the first cable end configured to be connected to the hand-held electronic unit, and the second cable end having a cable end coupling interface for establishing a wireless proximity connection via the second cable end to the field device coupling interface such that, upon establishing the wireless proximity connection, the data transmission circuit is placed in an active state, the data is transmitted to the field device via the wireless proximity connection and the additional-inductive power for the data transmission is transmitted inductively to the data transmission circuit of the field device via the wireless proximity connection, wherein the second cable end has a optical transceiver, and wherein the field device has a window for optical signals.

24. (currently amended) An arrangement for transmitting data between a hand-held electronic unit and a field device, the arrangement comprising:

a hand-held electronic unit;

a field device having at least one electrical connector for connecting the field device to an operating power supply and having a field device coupling interface, the connector configured to receive from the operating power supply an operation power for the field device sufficient for supporting all normal operations of the field device when employed in a technical facility, the field device further comprising a data transmission circuit in standby mode during normal operations of the field device; and

a cable having first and second cable ends for establishing a data connection between the hand-held electronic unit and the field device and an inductive power connection to supply an additional-inductive power to the data transmission circuit for the data transmission, the first cable end configured to be connected to the hand-held electronic unit, and the second cable end having a cable end coupling interface for establishing a wireless proximity connection via the second cable end to the field device coupling interface such that, upon establishing the wireless proximity connection, the data transmission circuit is placed in an active state, the data is transmitted to the field device via the wireless proximity connection and the additional-inductive power for the data transmission is transmitted inductively to the data transmission circuit of the field device via the wireless proximity connection, wherein the additional-inductive power

required for supplying a ~~circuit section~~ the data transmission circuit of the field device that is involved in data transmission is transmitted via an inductive transformer.

25. (previously presented) The arrangement according to claim 24, wherein one coil of the transformer is disposed in the cable and a second coil is disposed in the field device.

26. (currently amended) An arrangement for transmitting data between a hand-held electronic unit and a field device, the arrangement comprising:

a hand-held electronic unit;

a field device having at least one electrical connector for connecting the field device to an operating power supply and having a field device coupling interface, the connector configured to receive from the operating power supply an operation power for the field device sufficient for supporting all normal operations of the field device when employed in a technical facility, the field device further comprising a data transmission circuit in standby mode during normal operations of the field device; and

a cable having first and second cable ends for establishing a data connection between the hand-held electronic unit and the field device and an inductive power connection to supply an additional inductive power to the data transmission circuit for the data transmission, the first cable end configured to be connected to the hand-held electronic unit, and the second cable end having a cable end coupling interface for establishing a wireless proximity connection via the second cable end to the field device coupling interface such that, upon establishing the wireless proximity connection, the data transmission circuit is placed in an active state, the data is transmitted to the field device via the wireless proximity connection and the ~~additional inductive power~~ for the data transmission is transmitted inductively to the data transmission circuit of the field device via the wireless proximity connection, wherein a cable coupling section for the coupling to the field device is detachably retained by a ring magnet of rotationally symmetrical design.

27. (currently amended) An arrangement for transmitting data between a hand-held electronic unit and a field device, the arrangement comprising:

a hand-held electronic unit;

a field device having at least one electrical connector for connecting the field device to an operating power supply and having a field device coupling interface, the connector configured to receive from the operating power supply an operation power for the field device sufficient for supporting all normal operations of the field device when employed in a technical facility, the field device further comprising a data transmission circuit in standby mode during normal operations of the field device; and

a cable having first and second cable ends for establishing a data connection between the hand-held electronic unit and the field device and an inductive power connection to supply an additional inductive power to the data transmission circuit for the data transmission, the first cable end configured to be connected to the hand-held electronic unit, and the second cable end having a cable end coupling interface for establishing a wireless proximity connection via the second cable end to the field device coupling interface such that, upon establishing the wireless proximity connection, the data transmission circuit is placed in an active state, the data is transmitted to the field device via the wireless proximity connection and the ~~additional inductive~~ power for the data transmission is transmitted inductively to the data transmission circuit of the field device via the wireless proximity connection, wherein the wireless data transmission is a capacitive data transmission.

28. (currently amended) An arrangement for transmitting data between a hand-held electronic unit and a field device, the arrangement comprising:

a hand-held electronic unit;

a field device having at least one electrical connector for connecting the field device to an operating power supply and having a field device coupling interface, the connector configured to receive from the operating power supply an operation power for the field device sufficient for supporting all normal operations of the field device when employed in a technical facility, the field device further comprising a data transmission circuit in standby mode during normal operations of the field device; and

a cable having first and second cable ends for establishing a data connection between the hand-held electronic unit and the field device and a capacitive power connection to supply an additional capacitive power to the data transmission circuit for the data transmission, the first cable end configured to be connected to the hand-held electronic unit, and the second cable end

having a cable end coupling interface for establishing a wireless proximity connection via the second cable end to the field device coupling interface such that, upon establishing the wireless proximity connection, the data transmission circuit is placed in an active state. the data is transmitted to the field device via the wireless proximity connection and the ~~additional capacitive~~ power for the data transmission is transmitted capacitively to the data transmission circuit of the field device via the wireless proximity connection, wherein the wireless power transmission is a capacitive power transmission.

29. (currently amended) An arrangement for transmitting data between a hand-held electronic unit and a field device, the arrangement comprising:

a hand-held electronic unit;

a field device having at least one electrical connector for connecting the field device to an operating power supply and having a field device coupling interface, the connector configured to receive from the operating power supply an operation power for the field device sufficient for supporting all normal operations of the field device when employed in a technical facility, the field device further comprising a data transmission circuit in standby mode during normal operations of the field device; and

a cable having first and second cable ends for establishing a data connection between the hand-held electronic unit and the field device and an inductive power connection to supply an ~~additional inductive~~ power to the data transmission circuit for the data transmission, the first cable end configured to be connected to the hand-held electronic unit, and the second cable end having a cable end coupling interface for establishing a wireless proximity connection via the second cable end to the field device coupling interface such that, upon establishing the wireless proximity connection, the data transmission circuit is placed in an active state. the data is transmitted to the field device via the wireless proximity connection and the ~~additional inductive~~ power for the data transmission is transmitted inductively to the data transmission circuit of the field device via the wireless proximity connection, wherein the second cable end has a optical transceiver and a coil.